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RAW SEQUENCE LISTING DATE: 11/21/2000
 PATENT APPLICATION: US/09/489,667A TIME: 19:10:33

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5 <120> TITLE OF INVENTION: CLOSTRIDIAL TOXIN DERIVATIVES AND METHODS FOR TREATING
6   PAIN
8 <130> FILE REFERENCE: botulinum-subP/pain/D2875
10 <140> CURRENT APPLICATION NUMBER: 09/489,667A
11 <141> CURRENT FILING DATE: 2000-01-19
13 <160> NUMBER OF SEQ ID NOS: 14
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18 <211> LENGTH: 11
19 <212> TYPE: PRT
20 <213> ORGANISM: Unknown Organism
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23 <221> NAME/KEY: MOD_RES
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25 <223> OTHER INFORMATION: AMIDATION
27 <220> FEATURE:
28 <223> OTHER INFORMATION: Description of Unknown Organism: This fragment is
29   substance P and is very well known in the art.
31 <220> FEATURE:
32 <223> OTHER INFORMATION: The Met at position 11 is Met-amide.
34 <300> PUBLICATION INFORMATION:
W--> 35 <310> PATENT DOCUMENT NUMBER: US 08/631,434
36 <311> PATENT FILING DATE: 1996-04-12
37 <312> PUBLICATION DATE: 1999-04-06
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50 <223> OTHER INFORMATION: Description of Unknown Organism: Precursor to
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53 <300> PUBLICATION INFORMATION:
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55 <311> PATENT FILING DATE: 1996-04-12
56 <312> PUBLICATION DATE: 1999-04-06
58 <300> PUBLICATION INFORMATION:
59 <301> AUTHORS: Shimonaka,
60   et al.,
61 <303> JOURNAL: J. Neurochem.
62 <304> VOLUME: 59
63 <306> PAGES: 81-92
64 <307> DATE: JUL-1992
66 <400> SEQUENCE: 2

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76 <220> FEATURE:

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79 in the art.

81 <300> PUBLICATION INFORMATION:

W--> 82 <310> PATENT DOCUMENT NUMBER: US 08/631,434

83 <311> PATENT FILING DATE: 1996-04-12

84 <312> PUBLICATION DATE: 1999-04-06

86 <300> PUBLICATION INFORMATION:

87 <301> AUTHORS: Shimonaka,

88 et al.,

89 <303> JOURNAL: J. Neurochem.

90 <304> VOLUME: 59

91 <306> PAGES: 81-92

92 <307> DATE: JUL-1992

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96 1 5 10

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105 <223> OTHER INFORMATION: Description of Unknown Organism: This fragment is a

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111 <311> PATENT FILING DATE: 1996-04-12

112 <312> PUBLICATION DATE: 1999-04-06

114 <300> PUBLICATION INFORMATION:

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116 et al.,

117 <303> JOURNAL: J. Neurochem.

118 <304> VOLUME: 59

119 <306> PAGES: 81-92

120 <307> DATE: JUL-1992

122 <400> SEQUENCE: 4

123 Arg Pro Lys Pro Gln Gln Phe Phe Gly Leu Met Gly Lys Arg

124 1 5 10

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128 <211> LENGTH: 12

129 <212> TYPE: PRT

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 139 12) is methylated.
 141 <300> PUBLICATION INFORMATION:
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 143 <311> PATENT FILING DATE: 1996-04-12
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 146 <300> PUBLICATION INFORMATION:
 147 <301> AUTHORS: Lee,
 148 et al.,
 149 <303> JOURNAL: Eur. J. Biochem.
 150 <304> VOLUME: 114
 151 <306> PAGES: 315-327
 152 <307> DATE: FEB-1981
 154 <300> PUBLICATION INFORMATION:
 155 <301> AUTHORS: Pernow, B.
 156 <303> JOURNAL: Pharmacol. Rev.
 157 <304> VOLUME: 35
 158 <306> PAGES: 86-138
 159 <307> DATE: JUN-1983
 161 <300> PUBLICATION INFORMATION:
 162 <301> AUTHORS: Regoli,
 163 et al.,
 164 <303> JOURNAL: TIPS
 165 <304> VOLUME: 9
 166 <306> PAGES: 290-295
 167 <307> DATE: AUG-1988
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 180 <223> OTHER INFORMATION: Description of Artificial Sequence: This is a
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 183 <220> FEATURE:
 184 <223> OTHER INFORMATION: The Lys at the carboxy-terminus (Lys at position
 185 13) is methylated.
 187 <300> PUBLICATION INFORMATION:
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 190 <312> PUBLICATION DATE: 1999-04-06

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192 <300> PUBLICATION INFORMATION:
 193 <301> AUTHORS: Lee,
 194 et al.,
 195 <303> JOURNAL: Eur. J. Biochem.
 196 <304> VOLUME: 114
 197 <306> PAGES: 315-327
 198 <307> DATE: FEB-1981
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 201 <301> AUTHORS: Pernow, B.
 202 <303> JOURNAL: Pharmacol. Rev.
 203 <304> VOLUME: 35
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 213 <307> DATE: AUG-1988
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 216 Arg Pro Lys Pro Gln Gln Phe Phe Gly Leu Met Gly Lys
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 229 <220> FEATURE:
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 233 <300> PUBLICATION INFORMATION:
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 239 <301> AUTHORS: Lee,
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 241 <303> JOURNAL: Eur. J. Biochem.
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 247 <301> AUTHORS: Pernow, B.
 248 <303> JOURNAL: Pharmacol. Rev.
 249 <304> VOLUME: 35
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251 <307> DATE: JUN-1983
253 <300> PUBLICATION INFORMATION:
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258 <306> PAGES: 290-295
259 <307> DATE: AUG-1988
261 <400> SEQUENCE: 7
262 Arg Pro Lys Pro Gln Gln Phe Phe Gly Leu Met Gly Lys Arg
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268 <212> TYPE: PRT
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275 <220> FEATURE:
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277 12) is ethylated.
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294 <303> JOURNAL: Pharmacol. Rev.
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301 et al.,
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304 <306> PAGES: 290-295
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VERIFICATION SUMMARY DATE: 11/21/2000
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